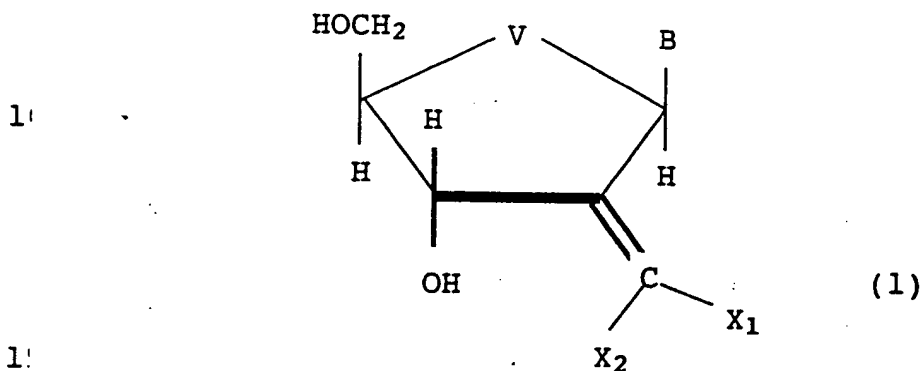


WHAT IS CLAIMED IS:

1. A method of treating a patient suffering from a neoplastic disease state comprising administering to said patient an effective antineoplastic amount of a 2'-halomethylidene derivative of the formula (1)

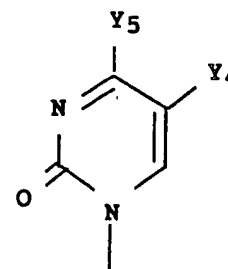
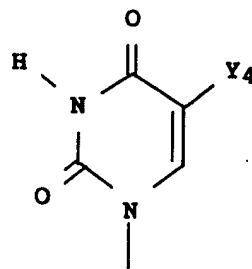
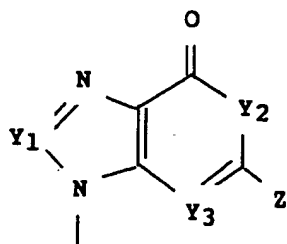


wherein

V is oxy, methylene, or thio,

X<sub>1</sub> and X<sub>2</sub> are each independently hydrogen or halogen, with the proviso that at least one of X<sub>1</sub> and X<sub>2</sub> is halogen,

B is a radical of the formula



wherein Y<sub>1</sub> is nitrogen, a CH group, a CCl group, a CBr group or a CNH<sub>2</sub> group; Y<sub>2</sub> and Y<sub>3</sub> are each independently nitrogen or a CH group; Y<sub>4</sub> is hydrogen, C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy or halogen; Y<sub>5</sub> is amino or C<sub>1</sub>-C<sub>4</sub> alkoxy; and Z is hydrogen, halogen, or NH<sub>2</sub>;

or a pharmaceutically acceptable salt thereof in conjunctive therapy with an effective antineoplastic amount of a S-phase or M-phase specific agent.

- 5        2. A method according to Claim 1 wherein the 2'-halomethylidene derivative of the formula (1) is (E)-2'-deoxy-2'-fluoromethylidenecytidine.
3. A method according to Claim 1 wherein the S-phase  
10 specific agent is cytarabine.
4. A method according to Claim 1 wherein the S-phase specific agent is fluorouracil.
- 15       5. A method according to Claim 1 wherein the M-phase specific agent is vinblastine.
6. A method according to Claim 1 wherein the neoplastic disease state is a leukemia.  
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7. A method according to Claim 1 wherein the neoplastic disease state is a carcinoma.
8. A method according to Claim 2 wherein the S-phase  
25 specific agent is cytarabine.
9. A method according to Claim 2 wherein the S-phase specific agent is fluorouracil.
- 30       10. A method according to Claim 2 wherein the M-phase specific agent is vinblastine.
11. A method according to Claim 2 wherein the neoplastic disease state is a leukemia.

12. A method according to Claim 2 wherein the neoplastic disease state is a carcinoma.

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